6025₁₅₄

| | | ĵ | 0 | | | | | | 30 | | | | | | | 50 | | | |
|--|--|--|--|---|-------------------------------------|--|--|---|--|--|---|--|--|---------------------------------------|--|--|--|--|---|
| GT | GAG | | | TT | TCA | TGA | ATT | CCC | CCAA | CAA | GAG | CCA | AGC | CTCT | CC | ATC | TAG | TGG | ACAG |
| - | | | 70 | | | | | | 90 | | | | | | | 110 | | | 10/10 |
| CC | ΔΔΩ | CTAC | - | . ^_ | ΔΔ۲ | CTT | ጉጉ | TTC | | | ΔΔ۲. | TTC | ΔΤΤ | CCT | | • | ^^ ^ | AAC. | AC AC |
| 00 | MO | 13 | | | | CIII | | 1 10 | 150 | | | 110 | חוו | OC I | _ | 170 | UAA | MMO | HUHU |
| тт | AAT | | - | | A ^ A | тот | A TO | T A C | | | | | T 4 T | TO 4 | | | | | . |
| 11 | AAI | TCAA | | AU | AUA | 1017 | 416 | I AG(| | | 444 | 400 | IAI | IGA | _ | | AAA | ACA(| |
| | | 19 | - | | | | – | | 210 | | | | | | | 230 | | | |
| GC | AII | | | GG(| CAA | CTA | AAT. | ACA | | | ACT | TTA | TAA | LAAG | | | TTT | TTA | TTTA |
| | | 25 | _ | | | | | | 270 | | | | | | | 290 | | | |
| TG | CAC | AGGG | TGC | AA(| CAA | GAT(| GA. | TTA | CAA | GTG: | TCA | AGT(| CCA | ATC | TA | TGA(| CAT | CAA | TAT |
| | | | | | | M | D | Υ | Q | V : | s s | S | Р | I | Υ | D | Ī | N | Υ |
| | | 31 | 0 | | | | | | 330 | | | | | | | 350 | - | | |
| TA | TAC | ATCG | - | CC | CTG | CCC | ΔΑΑ | ΔΑΤ (| | | AAG | `ΔΔ. | ΔΤΛ | $CC\Delta$ | | | ጉጉ | CCTO | CCT |
| Υ | T | _ | F | P | | P | | Ī | N ' | | | | | | A | R | 1 | 1 | |
| ٠ | • | 37 | _ | • | C | ľ | N | 1 | 390 | | ` ' | d | 1 | Α . | | т 410 | L | L | Г |
| ~~ | ΛΛΤ | | - | ΛT/ | 201 | Ott/ | NA T / | \TT | | | \TA/ | 200 | | | | | T | | |
| | 661 | CTAC | | | | | | | | | | | | | | | JAI | | |
| Р | L | - | S | L | ٧ | F | I | ŀ | G | | / (| ; | N | М | L | ٧ | l | L | I |
| | | 43 | - | | | | | | 450 | | , | | | | | 470 | | | |
| CT | GAT | AAAC | | CA | AAG(| GCTO | GA(| GAG(| CATG | ACT(| GAC | ATC | TAC | CTG | CTO | CAA(| CCT | GGC(| CATC |
| L | I | N | C | Q | R | L | Ε | S | M · | Τ (|) | ' | Y | L | L | N | L | Α | I |
| | | 49 | 0 | | | | | | 510 | | | | | | ! | 530 | | | |
| TC | TGA | CCTG | TTT | TT(| CCT | TCT1 | [AC] | rg r | CCC | TTC | rgg(| CT | CAC | TAT | GC: | TGC | CC | CCAC | STGG |
| S | | | | | | | | | | • | | | | | ~ ~ | | | | ,,,,, |
| | I) | - 1 | F | F | 1 | 1 | T | ٧ | P | F V | N A | A I | Н | Υ . | | | | Λ | W |
| • | υ | _ | • | ŀ | L | L | T | ٧ | P 1 | | V A | ۱ ۱ | Н | Υ . | Α. | Α | | Q | W |
| CA | | 55 | 0 | | L AAT | - | · | | 570 | | | | | | Α. ; | A 590 | A | • | •• |
| _ | CIT | 55 TGGA | 0 AA1 | · [AC/ | | - GTG1 | ΓCΑ/ | ACT(| 570 CTTG | ACA(| GGG | СТС | TAT | TTT | A S AT | A 590 AGG(| A CTT | CTT(| CTCT |
| GA D | | 55 TGGA G | 0 .aa1 N | | L AAT(M | - | · | ACT(| 570 CTTG L | ACA(| GGG | СТС | | TTT | A . ATA I | A 590 AGG(G | A | • | •• |
| D | CTT F | 55 TGGA G 61 | 0 AA1 N 0 | · TAC/ T | M | GTG1 C | ΓCΑ/ Q | ACT(L | 570 CTTG/ L 630 | ACA(T (| GGG(| CTC - | TAT Y | TTT. F | A ATA I | A 590 AGG(G 550 | A CTT F | CTT(F | CTCT S |
| D GG | CTT F AAT | TGGA G G 61 CTTC | 0 AA1 N 0 | · TAC/ T | M | GTG1 C | CCT(| ACT(L GAC/ | 570 TTG L 630 ATC | ACA(T (| GGG(G L | CTC - TAC | TAT Y CTG | TTT F GCT | A . ATA I (AT(| A 590 AGG(G 550 | A CTT(F CCA | CTT(F | CTCT S |
| D | CTT F AAT | 55 TGGA G 61 CTTC | .AA1 N O :TTC F | · TAC/ T | M | GTG1 C | ΓCΑ/ Q | ACT(L | 570 TTG, L 630 ATC | ACA(T (| GGG(G L | CTC - | TAT Y CTG | TTT F GCT | A ATA I | A 590 AGG(G 550 | A CTT F | CTT(F | CTCT S |
| D GG G | CTT F AAT | 555 TGGA G 61 CTTC F 67 | .AA1 N O :TTC F | TACATO | M CAT(I | GTGT C CCTC L | CCT(| ACT(L GAC/ T | 570 CTTG L 630 ATC I 1 690 | ACA(T (GAT/ D (| SGG(S L AGG1 | CTC - TAC | TAT Y CTG L | TTT F GCT A | ATA I ATA | A 590 G G 650 CGT(V 710 | A CTT(F CCA H | CTTO F TGCT A | CTCT S IGTG V |
| D GG G | CTT F AAT | 555 TGGA G 61 CTTC F 67 | 0 0 N 0 TTC F | TACATO | M CAT(I | GTGT C CCTC L | CCT(| ACT(L GAC/ T | 570 CTTG L 630 ATC I 1 690 | ACA(T (GAT/ D (| SGG(S L AGG1 | CTC - TAC | TAT Y CTG L | TTT F GCT A | ATA I ATA | A 590 G G 650 CGT(V 710 | A CTT(F CCA H | CTTO F TGCT A | CTCT S IGTG V |
| D GG G | CTT F AAT I | 55 TGGA G 61 CTTC F 67 TTTA | O AA1 N O TTC F O AAA | TACATO | M CATO I CAGO | GTG1 C CCTC L | CCTC L GGTC | ACTO L SACA T | 570 L 630 AATCO I (690 CTTT(| ACA(T (GAT/ D f | GGG(G L AGG1 R Y | CTC - FAC(| TAT Y CTG L | TTT F GCT A | ATA I (AT(| A 590 G G 550 CGT(V 710 GAT(| A F CCA H | CTTC F TGC1 A | CTCT S IGTG V |
| D GG G | CTT F AAT I | TGGA G 61 CTTC F 67 TTTA L | AAA N O TTC F O AAA | TACATO | M CATO I CAGO | GTG1 C CCTC L | CCTC L GGTC | ACTO L SACA T | 570 CTTG L 630 AATC I (690 CTTTC | ACA(T (GAT/ D f | GGG(G L AGG1 R Y | CTC - FAC(| TAT Y CTG L | TTT F GCT A | A | A 590 G 650 CGTO V 710 GATO I | A F CCA H | CTTC F TGC1 A | CTCT S IGTG V |
| D GG G TT F | CTT F AAT I TGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 | AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | TACATO | M CATO I CAGO R | GTGT C CCTC L GACG | CCTC L GGTC V | ACTO L SACA T CACO T | 570 CTTG L 630 AATC I 690 CTTTC F (| ACA(T (GAT/ D F | GGG(GGC) AGG1 R V | CTC FAC(| TAT Y CTG L ACA | TTT F GCT A AGT(S | ATA I (ATC I STC V | A 590 G 650 CGT(V 710 GAT(I 770 | A CTT(F CCA' H CAC' T | CTT(F TGCT A | CTCT S IGTG V CGTG V |
| GG G TT F | CTT F AAT I TGC A | TGGA G 61 CTTC F 67 TTTA L 73 TGTG | .AA1 N 0 .TTC F 0 .AAA K 0 .TT1 | TACATO | M CATO CAGO R STC | GTGT C CCTC L GACG T | CCCA | ACTO L SACA T CACO T | 570 L 630 AATCO I 6 690 CTTTO F (750 AATCO | ACAC T C GAT/ D F GGGC G \ | GGG(GGG(AGG1 R \ GTG(V \ | CTC FAC() FAC() | TAT Y CTG L ACA | TTT F GCT A AGT(S | ATA | A 590 G G 550 CGT(V 710 GAT(1 770 | A CTTO | CTTC F TGC1 A TTGC W | CTCT S IGTG V CGTG V |
| GG G TT F | CTT F AAT I TGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG | 60 AAA1 N 0 TTTC F 0 AAAA K 0 TTTT | TACATO | M CATO CAGO R STC | GTGT C CCTC L GACG | CCCA | ACTO L GACA T CACCO T | 570 CTTG L 630 AATC 1 (690 CTTT F (750 AATC I | ACA(T (GAT/ D F | GGG(GGG(AGG1 R \ GTG(V \ | CTC FAC() FAC() | TAT Y CTG L ACA | TTT F GCT A AGT(S | A | A 590 G G S50 V 710 GATO 1 770 K | A CTT(F CCA' H CAC' T | CTT(F TGCT A | CTCT S IGTG V CGTG V |
| GG G TT F | CTT F AAT I TGC A | 555 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 | .AA1 N 0 .TTC AAA K 0 .TTT F 0 | CATO I GCC A | M CATO CAGO R STC' S | GTGT C CCCTC L GACG T | CCC/P | ACTO L GACA T T AGGA G | 570 CTTG L 630 ATC I 690 CTTT F 750 ATC I 810 | ACAC T C GGAT/ D F GGGGC G \ | 1 3000 1 | CTC FACO | TAT Y CTG L ACA T | TTTT F GCT. A AGTO S | A STATA | A 590 G 6550 CGT(V 710 JAAA/ K 330 | A ECCA H CAC' T | CTTC F TGCT A TTGC W | CTCT S IGTG V CGTG V |
| GG G TT F GT V | CTT F AAT I TGC A GGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC | N O TTC AAAA K O TTT F O TGC | TACATO | M CATO | GTGT C CCTC L GACG T TCTC L | CCCA Q CCT(C L CCCCA P | ACTO L GACA T CACO T | 570 CTTG L 630 ATC I 690 CTTT F 750 ATC I 810 ATAC | ACAC T (GGAT/ D F GGGGC G \ ATC1 | CAGI | CTC FAC FAC ACC | TAT Y CTG L ACA T AGA | TTT. F GCT. A AGTO S TCTO | A : AT/ I (AT(I : CA/ Q (TG(| A 590 G G 650 CGT(V 710 J AAA/ K B330 GAA(| A CTTO F CCA' H CAC' T AGA. | CTTC F TGCT A TTGC W | CTCT S IGTG V CGTG V |
| GG G TT F GT V | CTT F AAT I TGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC | .00 .AA1 N 0 .TTC F 0 .AAA K 0 .TTT T C C | TACATO | M CATO | GTGT C CCTC L GACG T TCTC L | CCC/P | ACTO L GACA T T AGGA G | 570 CTTG L 630 AATC F (750 AATC I 810 TAC Y (| ACAC T (GGAT/ D F GGGGC G \ ATC1 | CAGI | CTC FAC FAC ACC | TAT Y CTG L ACA T AGA | TTT. F GCT. A AGTO S TCTO | A ATA I () ATO I CAA Q TGO N | A 590 G G 550 CGT(V 710 AAAA K B330 K | A ECCA H CAC' T | CTTC F TGCT A TTGC W AGGT G | CTCT S IGTG V CGTG V |
| GG G TT F GT V CA H | CTT F AAT I TGC A GGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC T 85 | .00 .AA1 N 0 .TTC F 0 .AAA K 0 .TT1 F 0 .TGC C 0 | TACATO | M CATO R STC' S | GTGT C CCT(C L GACG T TCT(C L | CCA/Q CCTC L CGTC V CCC/P | ACTO L GACO T AGGA G | 570 CTTG L 630 ATC I 690 CTTT F 750 ATC I 810 TAC Y 870 | ACACAT (GGAT/ D F GGGGGC ATCT AGTC AGTC | DODOO DODOO DOTO V V VITIT IDAGI | CTC FAC(CTG/ ACC(FAT(CTG/ C | TAT Y CTG L ACA T AGA CAA | TTTT F GCT. A AGTO S ' TCTO S TTC F I | A : : : : : : : : : : : : : : : : : : : | A 590 G G 550 CG V 710 GATC I 770 AAAA K SAAC K 330 K | A CTTO F CCA H CAC'T AGA. E | CTTC F TGCT A TTGC W AGGT G | CTCT S IGTG V CGTG V ICTT L |
| GG G TT F GT V CA H | CTT F AAT I TGC A GGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC | .00 .AA1 N 0 .TTC F 0 .AAA K 0 .TT1 F 0 .TGC C 0 | TACATO | M CATO R STC' S | GTGT C CCT(C L GACG T TCT(C L | CCA/Q CCTC L CGTC V CCC/P | ACTO L GACO T AGGA G | 570 CTTG L 630 ATC I 690 CTTT F 750 ATC I 810 TAC Y 870 | ACACAT (GGAT/ D F GGGGGC ATCT AGTC AGTC | DODOO DODOO DOTO V V VITIT IDAGI | CTC FAC(CTG/ ACC(FAT(CTG/ C | TAT Y CTG L ACA T AGA CAA | TTTT F GCT. A AGTO S ' TCTO S TTC F I | A : : : : : : : : : : : : : : : : : : : | A 590 G G 550 CG V 710 GATC I 770 AAAA K SAAC K 330 K | A CTTO F CCA H CAC'T AGA. E | CTTC F TGCT A TTGC W AGGT G | CTCT S IGTG V CGTG V ICTT L |
| GG G TT F GT V CA H | CTT F AAT I TGC A GGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC T 85 | NO AAAI NO TTC FO AAAA KO TTTI FO TGC C | TACATO | M CATO R STC' S | GTGT C CCT(C L GACG T TCT(C L | CCAA Q CCCT(L CCCCA P TTT1 F | ACTO L GACO T AGGA G | 570 CTTG L 630 ATC I 690 CTTT F 750 ATC I 810 TAC Y 870 | ACACATO CONTRACTOR CON | DOCCCCC | CTC FACCA ACCA FAT(| TAT Y CTG L ACA T AGA CAA | TTTT. F GCT. A AGTO TCTO F ICCO GTC. | A : : ATA I (ATC I : : CAA Q | A 590 G G 550 CG V 710 GATC I 770 AAAA K SAAC K 330 K | A CTTO F CCA H CAC'T AGA. E | CTTC F TGCT A TTGCT W AGGT G TTTC F | CTCT S IGTG V CGTG V ICTT L |
| GG G TT F GT V CA H | CTT F AAT I TGC A GGC A | 55 TGGA G 61 CTTC F 67 TTTA L 73 TGTG V 79 CACC T 85 AAAG | NO AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | CATO TACATO I GCC A GCC A CAGO S GTO | M CATO | GTGTGTCTC | CCAA Q CCCT(L CCCCA P TTT1 F | ACTO L GACA T CACCA T CCCA P | 570 CTTG L 630 ATC I 690 CTTTC F (750 ATC Y (870 CTC V (| ACACATO CONTRACTOR CON | DOCCCCC | CTC FACCA ACCA FAT(| TAT Y CTG L ACA T AGA CAA | TTTT. F GCT. A AGTO TCTO F ICCO GTC. | A STORY CAN | A 590 G G 550 C V 710 AAAA K B330 K B390 V | A CTTO F CCA H CAC'T AGA. E | CTTC F TGCT A TTGCT W AGGT G TTTC F | CTCT S IGTG V CGTG V ICTT L CCAG Q |
| GG G TT F GT V CA H | CTT F AAT I TGC A TTA Y | TGGA G G G G G G G G G G G G G G G G G G | NO AAAA AAAA AAAAAAAAAAAAAAAAAAAAAAAAAA | CATO T GCC A GCC A CAGO S | M CATC I CAGC R S CATC I | GTGT C CCTC L GACG T TCTC L | CCA/Q CCTC L CGTC V CCCA/P TTT1 F | ACTO L GACO T AGGA G CCCA P | 570 CTTG L 630 ATC I 690 CTTT 750 ATC I 810 Y 870 CTC V U 930 | ACACACACACACACACACACACACACACACACACACAC | AGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | CTC FAC() STG/ STG/ CTAT() | TATY CTG L ACA T AGA CAA CTT | TTTT F GCT. A AGTO S TTTC F V I GTC. | A STORY STOR | A 590 G 650 C V 710 AAAA K 330 K 330 K 890 V 950 | A CTTO F CCA' H CAC' T AGA. E CATO I | CTTC F TGCT A TTGCT W AGGT G TTTC F | IGTG V IGTG V ICTT L CCAG Q TAC Y |

FIG.1A

| | | 9 | 70 | | | | | | 99 | 90 | | | | | 1 | 010 | | | |
|----|-----|-----|-----|-----|-----|------|-----|-----|-------|-------|------|-----|-------------|-----|-----|-----|-----|-------|------|
| AG | GCT | TAT | CTT | CAC | CAT | CAT | GAT | TGT | TTA | \TT1 | TCT | CTI | CTG | GGC | TCC | CTA | CAA | CAT | TGTC |
| R | L | I | F | T | I | M | I | ٧ | Υ | F | L | F | W | Α | Ρ | Υ | N | I | ٧ |
| | | 10 | 30 | | | | | | 105 | 60 | | | | | 1 | 070 | | | |
| CT | TCT | CCT | GAA | CAC | CTT | CCA | GGA | AT1 | CTT | TGC | CCT | GA/ | NTAA | TTG | CAG | TAG | CTC | TAAT: | CAGG |
| L | L | L | N | T | F | Q | Ε | F | F | G | L | N | N | C | S | S | S | N | R |
| | | 10 | 90 | | | | | | 111 | 0 | | | | | 1 | 130 | | | |
| TT | GGA | CCA | AGC | TAT | GCA | GGT | GAC | AGA | GAC | CTCT | TGG | GAT | GAC | GCA | CTG | CTG | CAT | CAA | CCCC |
| L | D | Q | Α | M | Q | ٧ | T | Ε | T | L | G | М | T | Н | C | C | I | N | Р |
| | | 11 | 50 | | | | | | 117 | 70 | | | | | 1 | 190 | | | |
| ΑT | CAT | CTA | TGC | CTT | TGT | CGG | GGA | GAA | GTT | CAC | AAA? | CTA | CCT | CTT | AGT | CTT | CTI | ÇCA | AAAG |
| I | I | Y | Α | F | ٧ | G | Ε | K | F | R | N | Υ | L | L | ٧ | F | F | Q | K |
| | | 12 | - | | | | | | 123 | - | | | | | | 250 | | | |
| CA | CAT | TGC | CAA | ACG | CTT | CTG | CAA | ATG | CTC | STTC | TAT | TŢĪ | CCA | GCA | AGA | GGC | TCC | CGA | GCGA |
| Н | I | Α | K | R | F | C | K | C | C | S | I | F | Q | Q | Ε | A | Ρ | Ε | R |
| | | 12 | 70 | | | | | | 129 | 30 | | | | | 1 | 310 | ŀ | | |
| GC | AAG | CTC | AGT | TTA | CAC | CCC | ATC | CAC | CTGC | GG/ | AGCA | GGA | LAAT | ATC | TGT | GGG | CTI | GTG | ACAC |
| A | S | S | ٧ | Y | T | R | S | T | G | Ε | Q | Έ | I | S | ٧ | G | L | * | |
| | | | 30 | | | | | | 135 | - | | | | | - | 370 | | | |
| GG | ACT | CAA | GTG | GGC | TGC | FTGA | CCC | AG1 | CAC | SAG 7 | TGT | GCA | CAT | GGC | TTA | GTT | TTC | ATA: | CACA |
| | | 13 | 90 | | | | | | 141 | 0 | | | | | | | | | |
| GC | CTG | GGC | TGG | GGG | TGG | GGT | GGA | AGA | AGG T | CTI | TTT | | | | | | | | |

FIG.1B

| 4 | QVSSPIYDINYYTSEPCPKINVKQIAARLLPPLYSLVFIFGFVGNMLVIL ::: :: :. .:: : . | 53 |
|-----|--|-----|
| 18 | EEVTTFFDYDYGAPCHKFDVKQ1GAQLLPPLYSLVF1FGFVGNMLVVL | 65 |
| 54 | IL INCORLESMTDIYLLNLAISDLFFLLTVPFWAHYAAAQWDFGNTMCQL | 103 |
| 66 | ILINCKKLKCLTDIYLLNLAISDLLFLITLPLWAHSAANEWVFGNAMCKL | 115 |
| 104 | LTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALKARTVTFGVVTSVITW | 153 |
| 116 | FTGLYHIGYFGGIFFIILLTIDRYLAIVHAVFALKARTVTFGVVTSVITW | 165 |
| 154 | VVAVFASLPĠIIFTRSQKEĠLHYTCSSHFPYSQYQFWKNFQTLKIVILGL: : : : | 203 |
| 166 | LVAVFASVPG I IF TKCQKEDSVYVCGPYFPRGWNNFHT IMRN I LGL | 211 |
| 204 | VLPLLVMVIČYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNI | 253 |
| 212 | VLPLL IMVICYSGILKTLLRCRNEKKRHRAVRVIFTIMIVYFLFWTPYNI | 261 |
| 254 | VLLLNTFQEFFGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEK | 303 |
| 262 | VILLNTFQEFFGLSNCESTSQLDQATQVTETLGMTHCCINPIIYAFVGEK | 311 |
| 304 | FRNYLLVFFQKHIAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV | 350 |
| 312 | FRSLFHIALGCRIA.PLQKPVCGGPGVRPGKNVKVTTQGLLDGRGKGKSI | 360 |
| 351 | G 351 | |
| 361 | G 361 | |

FIG.2